SIKKIM

GOVERNMENT



GAZETTE

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GOVERNMENT OF SIKKIM DEPARTMENT OF MINES MINERALS & GEOLOGY GANGTOK

No. 6/DMMG/09 -10.

Date: 29/08/2009

NOTIFICATION

The Governor of Sikkim is hereby pleased to make the following regulation further to amend the Mines and Geology Regulation 2001, namely:-

- 1. (1) These regulation may be called the Mines and Geology (Amendment) Regulation, 2009.
 - (2) They shall come into force on the date of their publication in the Official Gazette.
- 2. In the Mines and Geology Regulation 2001, for the existing "SCHEDULE OF RATES" the following Schedule of Rates shall be substituted, namely:-

"SCHEDULE OF RATES"

RECONNAISSANCE SURVEY

| SI. No. | Subject | Amount | Unit |
|---------|--|--------|---------|
| 1. | Reconnaissance Geodetic Survey of an area to be surveyed and mapped on a scale of 1:5000 and smaller in semi barren/barren land. | 200.00 | Hectare |
| 2. | Reconnaissance Geodetic Survey of an area to be surveyed and mapped on scale of 1:5000 and smaller in thick forest cover | 400.00 | Hectare |

| 3. | Reconnaissance Geodetic Survey of an area to be surveyed and mapped on a scale larger than 1:5000 (i.e. 1:2500, 1:2000, 1:1000) in semi barren /barren land | 400.00 | Hectare |
|---------|---|---------|---------|
| 4. | Reconnaissance Geodetic Survey of an area to be surveyed and mapped on a scale larger than 1:5000 (i.e. 1:2500, 1:2000, 1:1000) on thick forest cover | 600.00 | Hectare |
| 5. | Reconnaissance Geodetic Survey of an area to be surveyed and mapped on a scale of 1:500 in either within forest cover of barren/semi barren land | 600.00 | Hectare |
| 6. | Reconnaissance Geodetic Survey of alignment for new road construction in semi barren/barren land. | 1200.00 | Km |
| 7. | Reconnaissance Geodetic Survey of alignment for new road construction in thick forest cover. | 1400.00 | Km |
| 8. | Reconnaissance Geodetic Survey of an area for major projects/establishment. | 600.00 | Day |
| 9. | Reconnaissance Cadastral Survey (boundary survey) | 200.00 | Hectare |
| | CONTOUR SURVEY | | |
| SI. No. | Subject | Amount | Unit |
| 10. | Contour surveying of an area larger than 10 hectares on a scale of 1:500 in semi barren/barren land(N.B. Add 50% of the job cost | 2880.00 | Hectare |

per hectare if the survey area falls below 10 hectares) Contour surveying of an area larger than 10 11. 3120.00 Hectare hectares on a scale of 1:500 in thick forest land (N.B. Add 50% of the job cost per hectare if the survey area falls below 10 hectares) 12. Contour surveying of an area larger than 10 3230.00 Hectare hectares on a scale of 1:1000 and 1:2000 in semi barren /barren land (N.B. Add 30% of the job cost per hectare if the survey area falls below 10 hectares)

| 13. | Contour surveying of an area larger than 10 hectares on a scale of 1:1000 and 1:2000 either within thick forest cover or urban township or cities (N.B. Add 30% of the job cost per hectare if the survey area falls below 10 hectares) | 3430.00 | Hectare |
|---------|---|-----------|---------|
| 14. | Contour surveying of an area on a scale of 1:5000 and smaller in semi barren /barren land. | 3030.00 | Hectare |
| 15. | Contour surveying of an area on a scale of 1:5000 and smaller in thick forest cover | 3130.00 | Hectare |
| • | CADASTRAL SURVEY | | |
| SI. No. | Subject | Amount | Unit |
| 16. | Detail cadastral survey of an area for demarcating private holdings /real estates on a scale of 1:2000, 1:1000 on rural area with minor jungle clearance etc. | 4200.00 | Hectare |
| 17. | Detail cadastral survey of an area for demarcating private holding /real estate properties etc. within thick forest/urban township and cities on a scale of 1:2000, 1:1000, 1:500 | 4950.00 | Hectare |
| | ROAD ALIGNMENT | | |
| SI. No. | Subject | Amount | Unit |
| 18. | Detail Contour Surveying of 30 metre on either side of road alignment on a scale of 1:500/1:1000 with a contour interval of 1 metre including cutting / clearance of minor jungle /bushes, detail alignment of road on the proposed site, providing Pegs /Katcha bullies at 20 m interval on both side of the road to be built all complete | 30,000.00 | Km |
| | OTHER PROJECTS | | |
| SI. No. | Subject | Amount | Unit |
| 19. | Transfer of the plans of the major projects on the ground from the pre-planned drawing, providing necessary identification marks on required areas etc. all complete. | 10,000.00 | Day |

| 20. | Short site visits by a survey team involving | 10,000.00 | Day |
|-----|--|-----------|-----|
| | instrumentation to verify/study the spot | | |
| | (all expenses included) | | |

REVENUE RECEIPT CHARGES

For the work listed from 1 to 20

| 21. | Upto 5 un interrupted working days | 10,000.00 |
|-----|---|-------------|
| 22. | Upto 10 un interrupted working days | 18,000.00 |
| 23. | Upto 20 un interrupted working days | 35,000.00 |
| 24. | Upto 100 un interrupted working days | 1,50,000.00 |
| 25. | For un interrupted working days beyond | 2,50,000.00 |
| | 100 days upto 250 days | |
| 26. | For un interrupted working days beyond 250 days | 5,00,000.00 |

SAMPLING

| SI. No. | Subject/Nature of work | Unit | Amount |
|---------|---|-------------------|--------|
| 27 | Channel sampling in exposed soft rock | (10cmx100cmx10cm) | 450.00 |
| 28 | Channel sampling in exposed soft rock | (10cmx100cmx15cm) | 550.00 |
| 29 | Channel sampling in buried soft rock | (10cmx100cmx10cm) | 550.00 |
| 30 | Channel sampling in buried soft rock | (10cmx100cmx15cm) | 650.00 |
| 31 | Channel sampling in hard rock out crop | (10cmx100cmx10cm) | 550.00 |
| 32 | Channel sampling in hard rock out crop. | (10cmx100cmx15cm) | 650.00 |
| 33 | Channel sampling in buried hard rock | (10cmx100cmx10cm) | 650.00 |
| 34 | Channel sampling in buried hard rock | (10cmx100cmx15cm) | 750.00 |
| 35 | Grab sampling | 1 nos. | 40.00 |
| 36 | Augur sampling | 1 nos. | 50.00 |

PITTING AND TREANCHING AND BACK FILLING

| SI. No. | Subject/Nature of work | Unit | Amount |
|---------|---|------|--------|
| 37 | Excavation of pits/trenches in mixed soil to a depth of 150 cms max, and lifting of material all complete (Length & breath depending upon working condition) | Cum | 100.00 |
| 38 | Excavation of pits/trenches in mixed soil upto a depth of 300 cms max. and lifting of material all complete (Length & breath depending upon working condition). | Cum | 135.00 |
| 39 | Excavation of pits/trenches in mixed soil upto a depth of 400 cms max. and vertical uplift of material all complete (Length & breath depending upon working condition). | Cum | 200.00 |

| 40 | Excavation of pits/trenches in mixed soil upto a depth of 500 cms cum max. and vertical uplift of matcumerial all complete (Length & breath cum depending upon working condition). | Cum | 265.00 |
|-----|--|----------|---------------------|
| 41 | Excavation of pits/trenches in mixed soil upto a depth of 600 cms max. and vertical uplift of material all complete (Length & breath depending upon working condition). | Cum | 400.00 |
| 42 | Excavation of 150 cm pits/ trenches in soft rock/mixed soil formation and vertical uplift of material all complete (Length & breath depending upon working condition). | Cum | 135.00 |
| 43 | Excavation of 300 cms pits/ trenches in soft rock/mixed soil formation and vertical uplift of material all complete (Length & breath depending upon working condition). | Cum | 200.00 |
| 44 | Excavation of 400 cms pits/ trenches in soft rock/mixed soil formation and vertical uplift of material all complete (Length & breath depending upon working condition). | Cum | 265.00 |
| 45 | Excavation of 500 cms pits/ trenches in soft rock/mixed soil formation and vertical uplift of material all complete (Length & breath depending upon working condition). | Cum | 400.00 |
| 46 | Excavation of 600 cms pits/ trenches in soft rock/mixed soil formation and vertical uplift of material all complete (Length & breath depending upon working condition). | Cum | 500.00 |
| 47 | Back filling of pits/trenches by excavated material GEOTECHNICAL TESTS: (As per G.S.I) SOIL TESTING: | Cum | 50.00 |
| 48. | Particle Size Analysis for determining sand, silt | and clay | Amount Rs.809.00 |
| 49. | percentages (including pipetting Determination of Atterberg's Limits (LL,PL & PI) (LL – or set of 3 tests) | | Rs.417.00 |
| 50. | Laboratory vane shear test | | Rs.668.00 |
| 51. | Laboratory Permeability test (By Jodhpur Perme | eameter) | Rs.936.00 |
| 52. | Swelling Index test | • | Rs.731.00 |
| 53. | Particle Specific Gravity | | Rs. 450.00 |
| 54. | Optimum moisture content by Proctor Compacti | ion | Rs.1257.00 |

| 5 5. | Density and moisture content (in-situ)- a set of 3 tests | Rs. 371.00 |
|-------------|--|--|
| 56. | Density and moisture content of disturbed Sample. | Rs. 720.00 |
| 57. 58. | pH of a particular sample by pH meter. Director Shear Test (a test by 3 tests) by any of these methods. | Rs. 359.00 |
| | i) Unconsolidated undrained (uu) condition ii) Consolidated urdrained (cu) condition iii) Consolidated urdrained (cd) condition | Rs. 671.00 Rs. 804.00 Rs. 1,457.00 |
| 59. | Soil traxial test (a set of least 3 test) by any of these methods. i) Unconsolidated undrained (uu) Condition—without pore pressure ii) Consolidated undrained (cu) condition iii) Consolidated drained (cd) condition iv) Unconsolidated undrained condition—With pore pressure v) Unconfined compression test (ucc) | Rs. 672.00 Rs. 1,713.00 Rs. 1,713.00 Rs. 1,713.00 Rs. 731.00 |
| 60. | Cutting of rock core faces (one core) | Rs. 204.00 |
| 61. | Cutting of one rock cube | Rs. 812.00 |
| 62. | Uni-axial compressive strength of a Set of at least 3 cores including Cutting and polishing of faces. | Rs. 2,147.00 |
| 63. | Tensile Strength of a set of at least 3 Cores including cutting and polishing of faces as per specification. | Rs. 2,147.00 |
| 64. | Point Load Strength Index test | Rs. 528.00 |
| 65. | Modulus of elasticity and Poison's Ratio -a set of 3 samples. | Rs. 2,816.00 |
| 66. | Determination of Bulk density and void ratio (including cutting & polishing) & water Absorption. | Rs. 854.00 |
| 67. | Determination of specific Gravity. | Rs. 204.00 |
| | AGGREGATE TESTING | |
| | Coarse Aggregate Teesta:- | Amount |
| 68 | Aggregate impact value (average of a set of 3 test) 6 | Rs. 1,410.00 |

| | 69 | Soundness loss test (average of a set of 3 tests) | Rs. 1,667.00 |
|---|----|---|------------------------------|
| | 70 | Los Angeles Abrasion test (one set of 3 tests) | Rs. 1,680.00 |
| | 71 | Crushing Strength (one set of 3 tests) | Rs. 1,110.00 |
| | 72 | Compressive strength by uniaxial compression testing machine (a set of 3 sets) | Rs. 2,147.00 |
| | 73 | Compressive strength by Point Load Strength machine after computation (a set of 3 tests) | Rs. 500.00 |
| | 74 | Modulus of elasticity & Poison's ratio | Rs. 1845.00 |
| | 75 | Bulk density & Void ratio | Rs. 700.00 |
| - | 76 | Specific Gravity | Rs. 450.00 |
| | 77 | Water absorption | Rs. 950.00 |
| | | Fine Aggregate Tests: | |
| | 78 | Sieve Analysis and determination of fineness Modulus | Rs. 809.00 |
| | 79 | Specific Gravity (particle) | Rs. 677.00 |
| | 80 | Mica Content determinations | Rs. 669.00 |
| | 81 | Organic impurities Test | Rs. 698.00 |
| | 82 | Combined Silt and Clay Content | Rs. 809.00 |
| | | FIELD TESTING: | Amount |
| | 83 | Collection of undisturbed soil samples with wax sealing etc. by usual method | Rs. 794.00 |
| | 84 | Sampling by hand augur upto 2 mt. depth – (charge per mts. Calculated) | Rs. 900.00 |
| • | 85 | Determination of bearing capacity of soil by Vicksberg Cone-penetrometer | Rs. 993.00 |
| | 86 | Field Vane Shear test In situ stress determination in underground openings under construction by flat jack 2 pin method (a set of two tests) | Rs. 3800.00 Rs. 24,224.00 |

CIVIL WORKS IN GEOENGINEERING

REMEDIAL MEASURES:

| 87 | Retaining Structure | As per SPWD rates |
|----|--|----------------------------|
| 88 | Drainage | As per SPWD rates |
| 89 | Grouting | As per GSI, NHPC rates |
| 90 | Bio-technical stabilization | As per Forest Deptt. rates |
| 91 | Fitting, fixing of 25mm – dia. Of different length, different rock bolts in all types of rocks including reinforcement of cement grouting for rock bolting all complete. | Rs. 120/m |

Cost of rock bolts extra as per the prevailing market rates.

CHARGES FOR SERVICES RENDERED BY THE DEPARTMENT OF MINES AND GEOLOGY, GOVT. OF SIKKIM, BEYOND THEIR ACREDITED ACTIVITIES (To be deposit in State Bank of Sikkim, under the to departmental receipt head)

| 92 | Geo-technical studies for a period not exceeding 3 days | Amount |
|----|--|---------------|
| | a) East District | Rs. 10,000.00 |
| | b) West District | Rs. 12,000.00 |
| | c) North District | Rs. 12,500.00 |
| | d) South District | Rs. 11,500.00 |
| 93 | Geo-technical studies for a period not exceeding 5 days | |
| | a) East District | Rs. 17,000.00 |
| | b) West Distric | Rs. 18,500.00 |
| | tc) North District | Rs. 19,500.00 |
| | d) South District | Rs. 17,500.00 |
| 94 | Geo-technical studies for a period not exceeding 10 days | |
| | a) East District | Rs. 33,000.00 |
| | b) West District | Rs. 35,000.00 |
| | c) North District | Rs. 36,000.00 |
| | d) South District | Rs. 35,000.00 |

95 Charges for geotechnical and geological investigation including drainage mapping, geo-morphology etc per km (30 mts on both side of proposed road).

- i) East district Rs. 6,000/- for 1st km and Rs 5,225/-km for additional kms.
- ii) South district Rs. 7,000/-for 1st km and Rs. 5,225/km for additional kms.

- iii) West district Rs. 8,000/-for 1st km and Rs. 5,225/km for additional kms.
- iv) North district Rs. 7,750/-for 1st km and Rs. 5,225/km for additional kms.

Geological and Geotechnical studies on suitability of area for road construction in all parts of Sikkim.Rs. 12000/km+ requisite fee for as per scheduled XII (SI. No. 1 to 3) above

| CI | HEMICAL ANALYSIS: | | | Amount |
|-----|--|-----|------------------|-------------------|
| 97 | Quantitative chemical analysis of rock by conventional wet chemical method for SiO_2 , Al_2O_3 , TiO_2 , FeO , Fe_2O_3 , MnO_2O_3 , CaO , MgO , Na_2O_3 , K_2O_3 , P_2O_5 , CO_2 (+/-), H_2O_3 | Ο, | R | s. 6060.00 |
| 98 | Quantitative wet chemical analysis by conventional method | s | | |
| | a) First radical | | R | s. 467.00 |
| | b) Each additional radical except rare earth elements | | R | s. 312.00 |
| | c) Rare earth elements, viz, Ta, Nb, W, Zr, Mo, Cd, V, Li etc | C. | R | s. 657.00 |
| 99 | Gold or silver analysis (first assay) | | R | s. 967.00 |
| 100 | Organic matter/carbon analysis | | R | s. 402 .00 |
| | WATER ANALYSIS: | | | |
| 101 | Partial (pH, conductivity, total hardness, alkalinity, chloride) | Rs. | 2810.00 | Per Sample |
| 102 | Detailed (pH, conductivity, total hardness, Alkalinity, Carbonate, Biocarbonate, T.D.S., Nitrate, Sulphate, Chloride, Iron, Calcium, Magnesium, Sodium, Potassium, Boron, Fluoride. | Rs. | 769.00 | Per Sample |
| 103 | a) Coliform count, Presence or absence test in the Laboratory b) Sample collection within East District and test | Rs. | 302.00 | Per Sample |
| | for Coliform presence, or absence and count. i) First sample ii) Each subsequent sample | | 650.00 362.00 | |

N.B. Service charge extra as per Schedule XVIII (To be deposited in SBS under appropriate departmental head).

c) Sample collection within West District and test for Coliform presence or absence and count

i) First sample Rs. 877.00 ii) Each subsequent sample Rs. 362.00 N.B. Service charge extra as per Schedule XVIII (To be deposited in SBS under appropriate departmental head).

d) Sample collection within North District and test for Coliform presence or absence and count

i) First sample

Rs. 1110.00

ii) Each subsequent sample

Rs. 362.00

N.B. Service charge extra as per Schedule XVIII (To be deposited in SBS under appropriate departmental head).

e) Sample collection within South District and test for Coliform presence or absence and count

i) First Sample

Rs. 762.00

ii) Each subsequent sample

Rs. 362.00

N.B. Service charge extra as per Schedule XVIII (To be deposited in SBS under appropriate departmental head).

DIAMOND DRILLING (Preparation)

104. Dismantling of Drilling Machine all complete.

Rs. 1630.00

105. Assembly of Drill Machine all complete.

Rs. 3100.00

106. Carriage of Machine parts in Hilly Terrain other than vehicular transport.

Rs. 1.00 kg/100mts.

107. Transportation cost for vehicular transport

As per SNT rates

108. Construction of Platform all complete

Rs. 4000.00

109. Laying of temporary water supply pipe line and construction of temporary (2m x 1m x 0.5m)

Water tank with concrete.

Rs. 1200.00

RATE OF DIAMOND CORE DRILLING PER METER.

110. Cost of diamond core drilling per metre in soft rock formation upto a depth of 40 metres all complete.

111. Cost of diamond core drilling per metre in soft rock formation between 40 mts to 60 mts. all complete.

112. Cost of diamond core drilling per metre in soft rock formation between 60 mts to 100 mts. all complete.

113. Cost of diamond core drilling per metre in soft rock formation between 100 mts to 150 mts, all complete.

114. Cost of diamond core drilling per metre in medium hard rock formation upto a depth of 40 mts all complete.

Rs. 1315.00 + 72 lts. of HSD under prevailing market rate.
Rs. 1630.00 + 58 lts. of HSD under prevailing market rate.
Rs. 1960.00 + 70 lts. of HSD under prevailing market rate.
Rs. 2350.00 + 84 lts. of HSD under prevailing market rate.
Rs. 1445.00 + 72 lts. of HSD under prevailing market rate.

| 115. | Cost of diamond core drilling per metre in medium |
|------|---|
| | hard rock formation between 40 mts to 60 mts. |
| | all complete. |
| 116. | Cost of diamond core drilling per metre in medium |

Rs. 1745.00 + 64 lts. of HSD under prevailing market rate.

116. Cost of diamond core drilling per metre in medium hard rock formation between 60 mts to 100 mts. all complete.

Rs. 2160.00 + 77 lts. of HSD under prevailing market rate.

 Cost of diamond core drilling per metre in medium hard rock formation between 100 mts to 150 mts. all complete. Rs. 2595.00 + 93 lts. of HSD under prevailing market rate.

118. Cost of diamond core drilling per metre in hard rock formation upto40 mts all complete.

Rs. 1690.00 + 58 lts. of HSD prevailing market rate.

119. Cost of diamond core drilling per metre in hard rock formation upto 40to 60 mts. all complete

Rs. 1975.00 + 71 lts. of HSD under prevailing market rate.

120. Cost of diamond core drilling per metre in hard rock formation upto 60 mts to 100 mts. all complete.

Rs. 2380.00 + 85 lts. of HSD under prevailing market rate.

121 Cost of diamond core drilling per metre in hard rock formation upto 100 mts to 150 mts. all complete.

Rs. 2855.00 + 104 lts. of HSD under prevailing market rate.

122. Borehole Logging/per hole

Gangtok and suburb

123.

Rs. 4000.00 + required p.oil for visiting official.

Rs. 2400.00

schedule XII.

Charges for service rendered to public for issue of stability/ report for construction of residential building & water test report.

| | U | |
|------|---|--|
| 124. | Singtam, Rango, Pakyong, Rumtek, Kabi, Phodong. | Rs. 2700.00 |
| 125. | Rhenock, Dikchu | Rs. 2900.00 |
| 126. | Rongli, Jorethang, Nayabazar, Namchi, Ravangla, Mangan. | Rs. 3150.00 |
| 127. | Soreng, Sombarai, Gyalzing, Tashiding, Chungthang, Dzongu | Rs. 3400.00 |
| 128. | Hilley, Kaluk, Dentam, Utteray, Lachen-Lachung. | Rs. 3600.00 |
| | eological /Geotechnical studies of road alignment different parts of state. | Rs. 12000.00/Km + requisite fee as per |

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RATE OF GEOLOGICAL AND GEOTECHNICAL INVESTIGATION.

- 129. Geological/Geotechnical mapping over one hectare of area with rock exposures and semi barren land. Rs. 600/ha.
- 130. Geological/Geotechnical mapping over one hectare of area with few rocks exposures with moderate to thick soil over burden:

 Rs. 700/ha.
- 131. Geological/Geotechnical mapping over one hectare of area in thick jungle with few rock exposer: Rs. 800/ha.

GIS (Geographical Information Laboratory) Charges for data compilation at GIS laboratory.

Scanning of Maps, Diagrams etc. (one hard copy included)

| SI. No. | SIZE & TYPE | AMOUNT (Rs.) |
|---------|-------------|--------------|
| 132 | A4: | |
| | Colour | 300.00 |
| | BW | 200.00 |
| 133 | A3: | |
| | Colour | 300.00 |
| | BW | 200.00 |
| 134 | A2: | |
| | Colour | 400.00 |
| | BW | 300.00 |
| 135 | A1: | |
| | Colour | 600.00 |
| | BW | 500.00 |
| 136 | AO: | |
| | Colour | 1000.00 |
| | BW | 700.00 |

Digitization and editing (including one draft and one hard copy)

| SI. No. | SIZE & TYPE | | AMOUNT (Rs.) |
|---------|-------------|----|--------------|
| 137 | A4 : | | |
| | Point | | 1,000.00 |
| | Line | | 1,400.00 |
| | Połygon | | 2,100.00 |
| 138 | A3: | | |
| | Point | | 1,950.00 |
| | Line | | 2,050.00 |
| | Polygon | | 2,650.00 |
| 139 | A2 : | | |
| | Point | | 3,600.00 |
| | Line | | 4,000.00 |
| | Polygon | | 5,200.00 |
| 140 | A1: | | |
| | Point | | 6,650.00 |
| | Line | | 6,900.00 |
| | Polygon | | 9,150.00 |
| 141 | AO: | | |
| | Point | | 9,600.00 |
| | Line | | 10,000.00 |
| | Polygon | | 13,150.00 |
| | | 12 | |

Scanning, Editing & Processing a column of black & white map to produce colour hard copy complete with all annotation and legend (Using GIS software Arc View)

| SI. No. | SIZE & TYPE | AMOUNT (Rs.) |
|---------|------------------------|--------------|
| 142 | A4 : | |
| | Simple | 4,300.00 |
| | Moderately complicated | 7,550.00 |
| | Complicated | 14,950.00 |
| 143 | A3: | |
| | Simple | 5,900.00 |
| | Moderately complicated | 9,850.00 |
| | Complicated | 17,300.00 |
| 144 | A2: | |
| | Simple | 9,250.00 |
| | Moderately complicated | 12,500.00 |
| | Complicated | 24,800.00 |
| 145 | A1: | |
| | Simple | 18,450.00 |
| | Moderately complicated | 26,600.00 |
| | Complicated | 35,550.00 |
| 146 | AO: | |
| | Simple | 29,450.00 |
| | Moderately complicated | 36,700.00 |
| | Complicated | 49,350.00 |
| | | |

Rate of work items in all places are subject to increase/decrease as per price fluctuation of P. Oil exceeding 10%.

By order and in the name of the Governor

SECRETARY
MINES & GEOLOGY DEPARTMENT
GOVT. OF SIKKIM, GANGTOK.

